

**Notice of Allowability**

Application No.

09/607,514

Applicant(s)

GONG

Examiner

Paul Callahan

Art Unit

2137

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to The Amendment filed 1/27/06.
2. ☒ The allowed claim(s) is/are 1,3-11,13-25 and 29-31.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

### **DETAILED ACTION**

1. Claims 1, 3-11, 13-25, and 29-31 are pending in the instant application and have been examined.

#### ***Response to Arguments***

2. Applicant's arguments, filed 1-27-06, with respect to claims 1, 3-11, 13-25, and 29-31 have been fully considered and, when taken together with the changes made to the language of the claims via the latest amendment, are persuasive in overcoming all the outstanding rejections of the claims as set forth in the previous Office Action.

#### ***Allowable Subject Matter***

3. Claims 1, 3-11, 13-25, and 29-31 are allowed.

4. The following is an examiner's statement of reasons for allowance:

The closest prior art in the field, Griffen US 5,893,077, McManis US 5,692,047, Chaplin US 5,315,655, and Fischer EPO 0 638 860 A2, Do not teach the features of the claimed invention as set forth in the independent claims:

As for claims 1, 11, and 22: Signing a live object where the signing includes the steps of instantiating a live object having at least one non-static field, in a runtime environment, taking a snapshot of the object by serializing a state of the object including information found in a non-static field of the object at the time of making the snapshot, and associating a signature with the object,

As for claim 29: Creating a signed object that represents a state of a live object instantiated in a runtime environment, where the live object contains dynamic data, including the steps of instantiating the object and thereby creating a snapshot array and a signature array associated with the object, storing a captured state of the live object in the snapshot array, generating a signature associated with the captured state, and storing the signature in the signature array,

As for claim 30: Creating a sealed object representing an encrypted version of a state of a live object containing dynamic data and instantiated in a runtime environment, including the steps of instantiating the sealed object and thereby creating a snapshot array, a signature array, and an encryption array associated with the sealed object, storing a captured state of the live object in the snapshot array, encrypting the snapshot and storing the encrypted version in the encryption array, and subsequently removing the snapshot from the snapshot array.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul E. Callahan whose telephone number is (571) 272-3869. The examiner can normally be reached on M-F from 9 to 5.

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If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Emmanuel Moise, can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is: (571) 273-8300.

3-10-06

*Paul Callahan*

*Emmanuel L. Moise*  
EMMANUEL L. MOISE  
SUPERVISORY PATENT EXAMINER